

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/26336

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 12/66

US CL : 370/352

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/352, 353, 354, 458, 459, 493, 535; 379/3, 406.01, 900

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Please See Continuation Sheet

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
East, STIC NPL, Internet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,559,793 A (MAITRA et al) 24 September 1996. Column 9, line 19 to column 13, line 55; column 18, line 44 to column 19, line 15; column 25, line 60 to column 28, line 5; column 31, line 14 to column 32, line 67.	1-74
Y	US 5,541,917 A (FARRIS) 30 July 1996. Column 18, line 42 to column 19, line 10.	1-74
Y	US 5,881,060 A (MORROW et al) 09 March 1999. Column 6, line 13 to column 9, line 50.	1-74
Y	US 5,341,374 A (LEWEN et al) 23 August 1994. Fig. 1; column 12, line 13 to column 13, line 66; column 14, lines 16-39; column 21, line 48 to column 23, line 41.	1-74

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

15 October 2001

Date of mailing of the international search report

16 NOV 2001

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

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Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/26336

Continuation of B. FIELDS SEARCHED - Item2:

IEEE Network, IEEE Journal on Selected Areas in Communications, IEEE Communications Magazine, Microprocessors and
Microsystems, Computer Communications, Computer Networks and ISDN Systems



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Europäisches
Patentamt

Zweigstelle
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Recherchen-
abteilung

European
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Branch at
The Hague
Search
division

Office européen
des brevets **EDV**
01.

Département à
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Division de la
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ALLEMAGNE

Eingang bei ZPL

25. APR. 2003

Term. 25.06.03
Bearb. 1/28

not. Feb.

Datum/Date

25.04.03

Zeichen/Ref./Réf.

113 822

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

02360286.5-2414-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

ALCATEL

Erfindung nicht vorweg-

COMMUNICATION

*gekommen. Weiter
mit A1.*

17.2.7.03

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☐ title

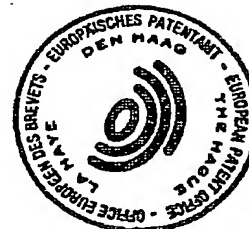
☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

NONE

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	WO 02 21780 A (VXTEL INC) 14 March 2002 (2002-03-14) * abstract * * page 6, paragraph 3 - page 7, paragraph 1 * * page 10, paragraph 3 - page 11, paragraph 1 * * page 13, paragraph 3 - page 16, paragraph 2 * * page 35, paragraph 2 - page 45, paragraph 1 * * figures 1A,1B,,10-14 * ----	1-5	G10L19/00 H04M7/00 H04L12/66
Y	US 6 424 942 B1 (JOHANSSON INGEMAR ET AL) 23 July 2002 (2002-07-23) * the whole document * ----	1-5	
A	US 5 812 965 A (MASSALOUX DOMINIQUE) 22 September 1998 (1998-09-22) * abstract; figures 2A-2C * * column 1, line 5 - column 3, line 15 * -----	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G10L H04M H04L
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 14 April 2003	Examiner Nash, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 36 0286

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-04-2003

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0221780	A	14-03-2002	AU	8523401 A	22-03-2002
			WO	0221780 A1	14-03-2002
US 6424942	B1	23-07-2002	AU	1422600 A	15-05-2000
			SE	9803698 A	27-04-2000
			WO	0025301 A1	04-05-2000
US 5812965	A	22-09-1998	FR	2739995 A1	18-04-1997
			EP	0768770 A1	16-04-1997
			JP	9179590 A	11-07-1997